

2002220" 64E6Z00T

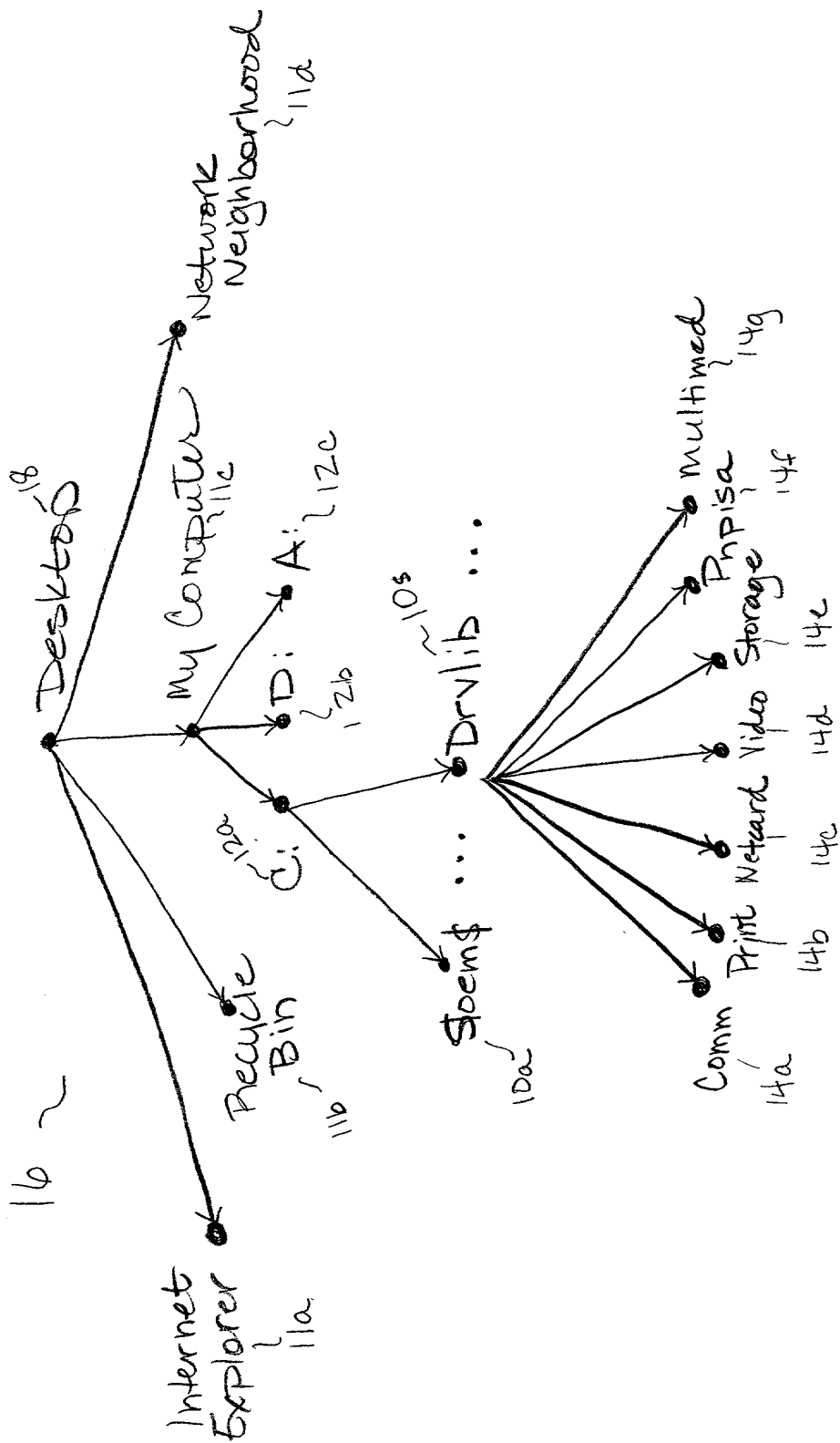


Fig. 1 (prior art)

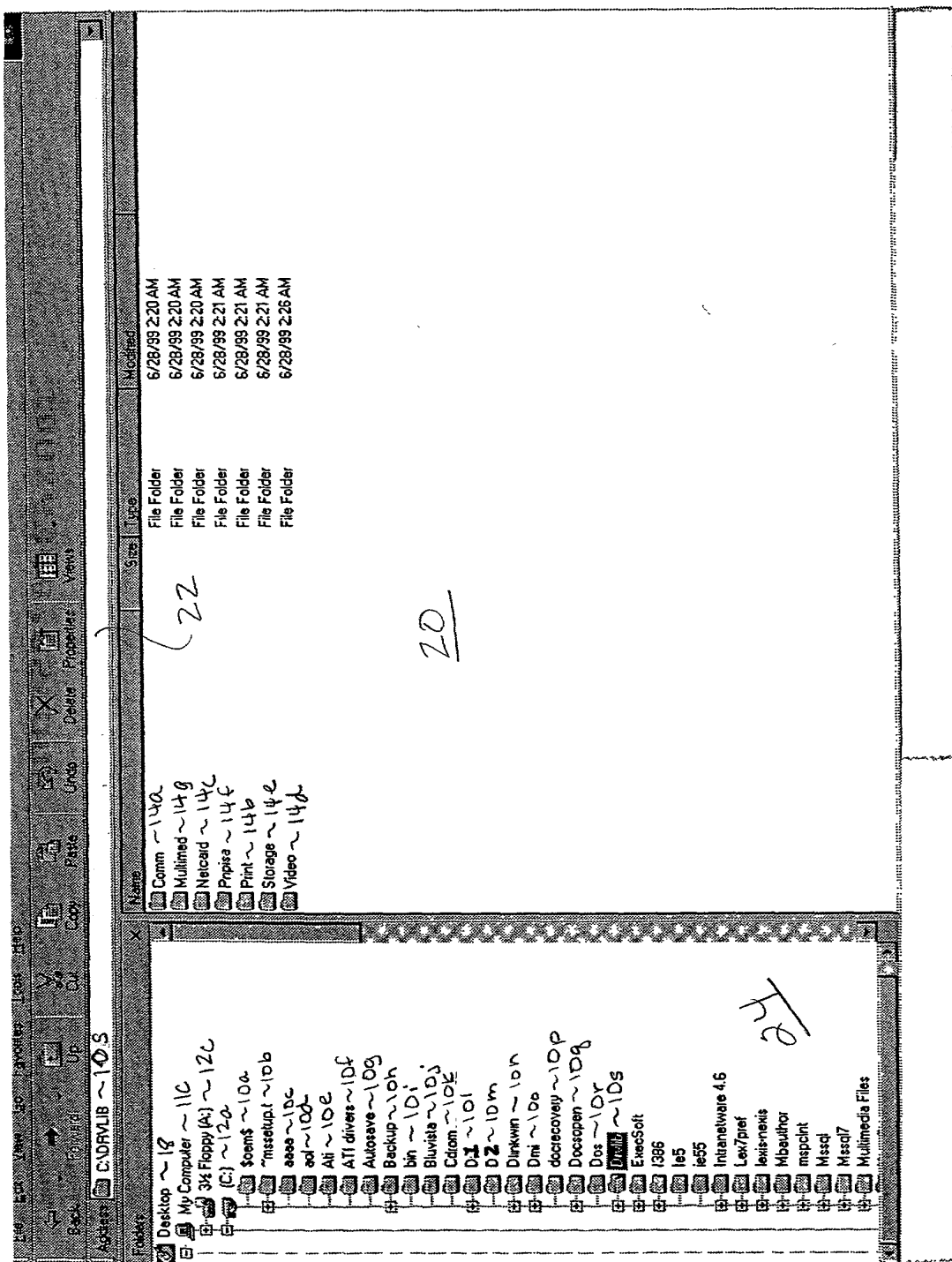
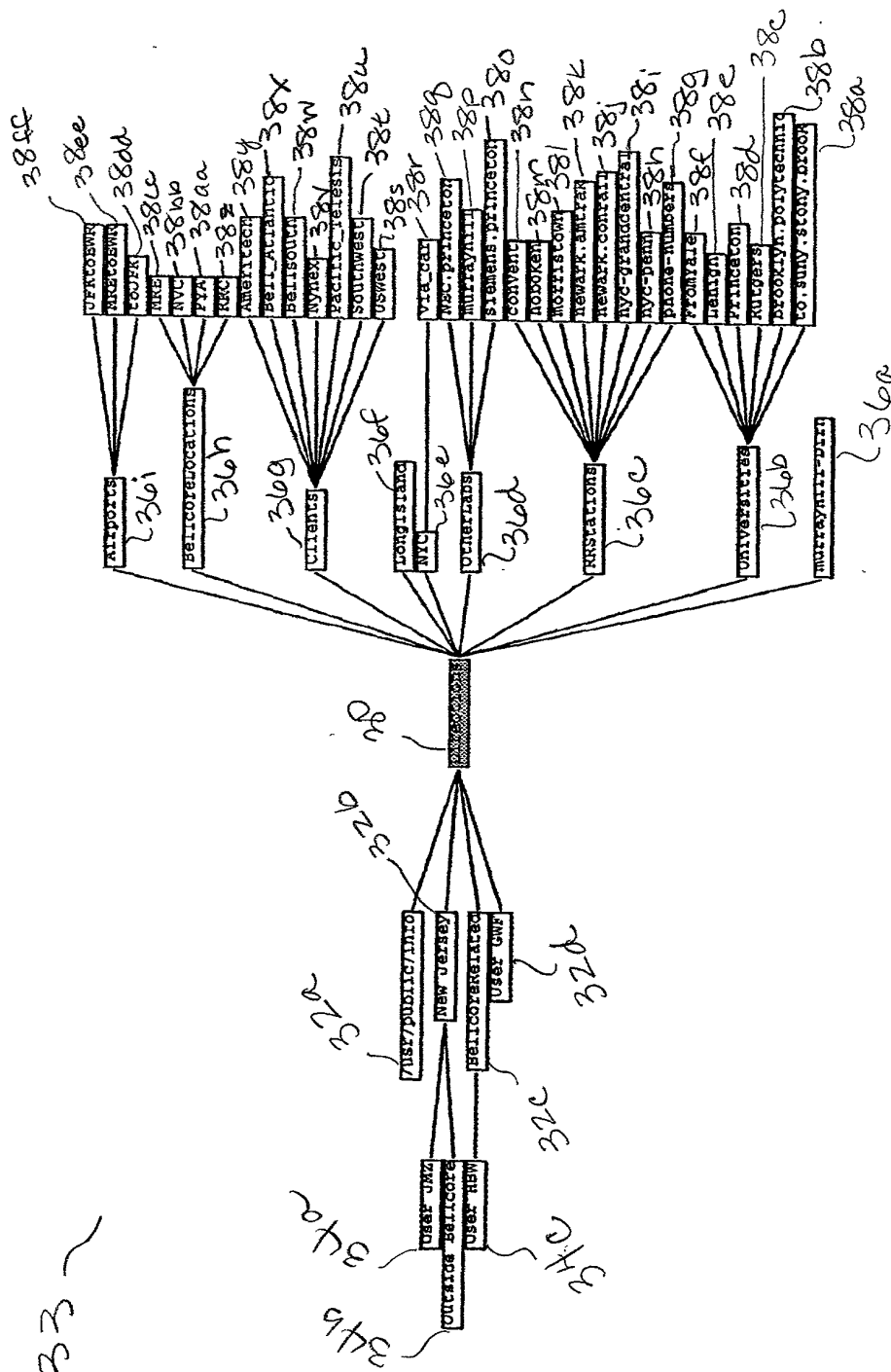


Fig.2 (prior art)



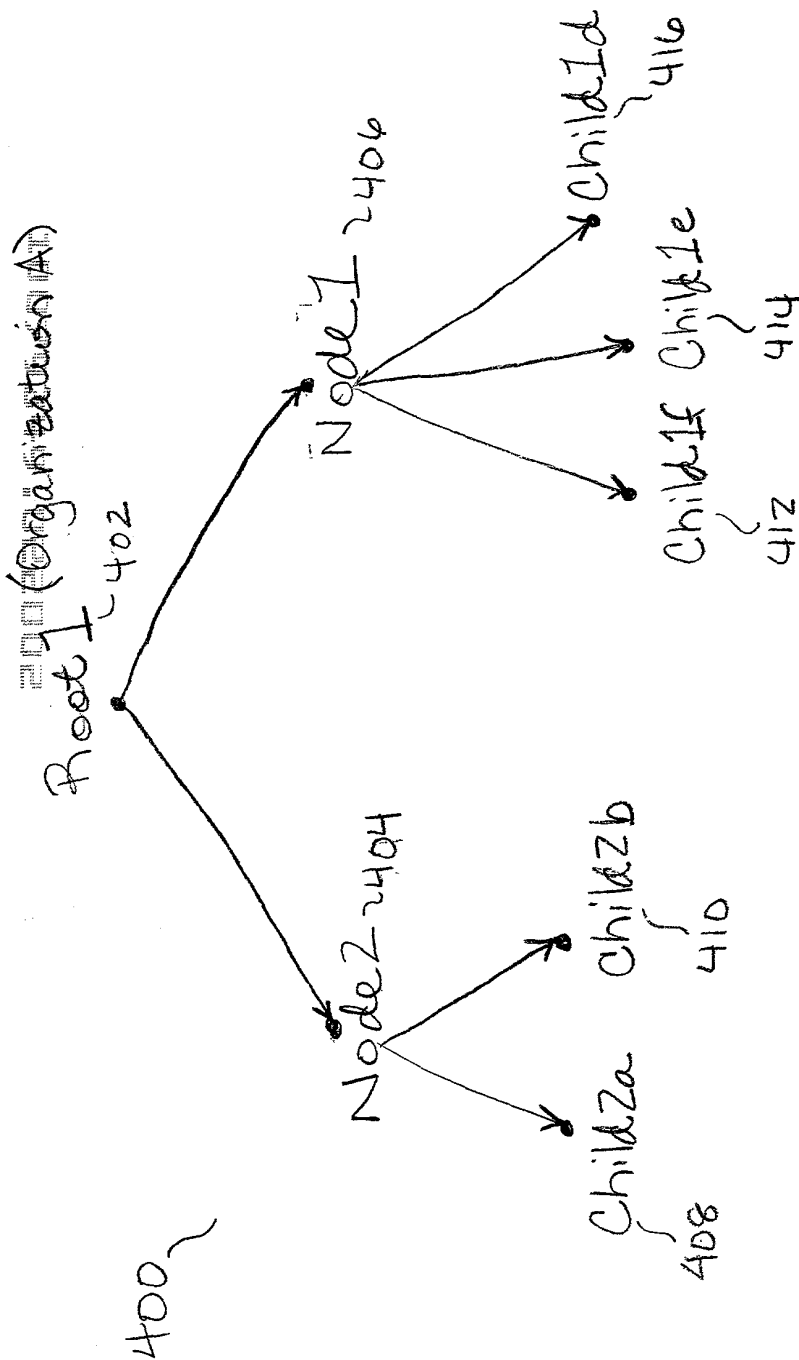


Fig. 4

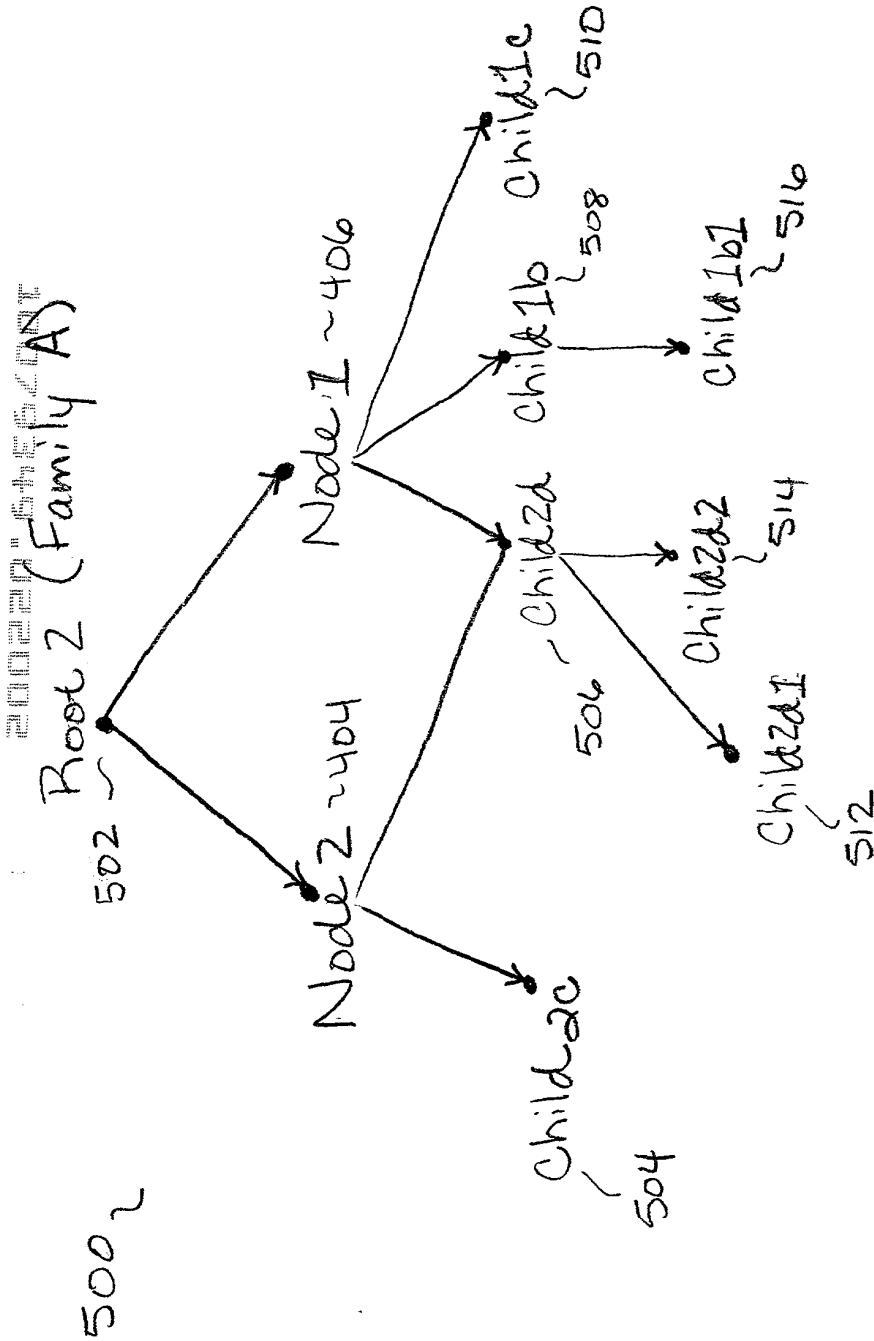


Fig. 5

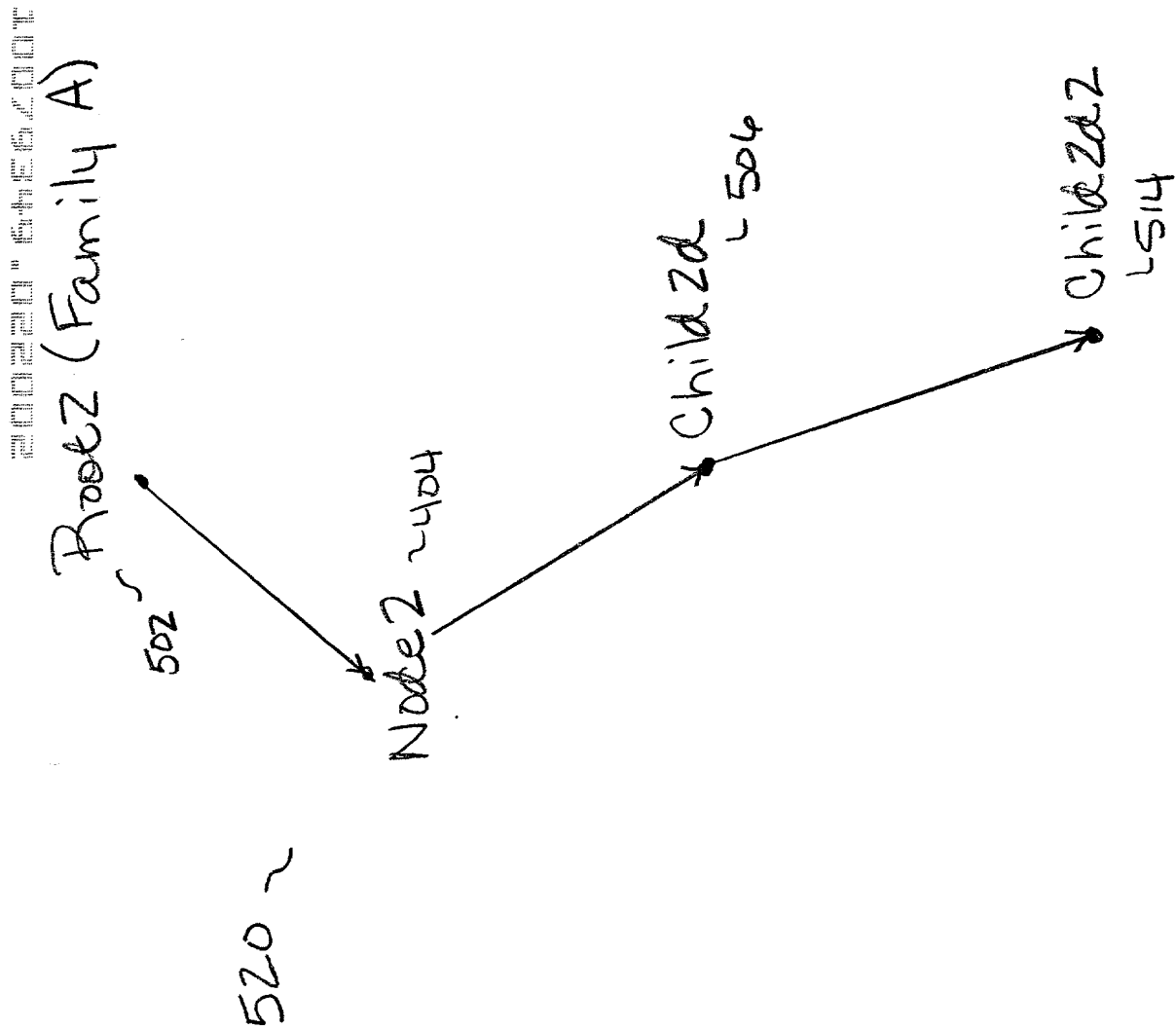


Fig. 5A

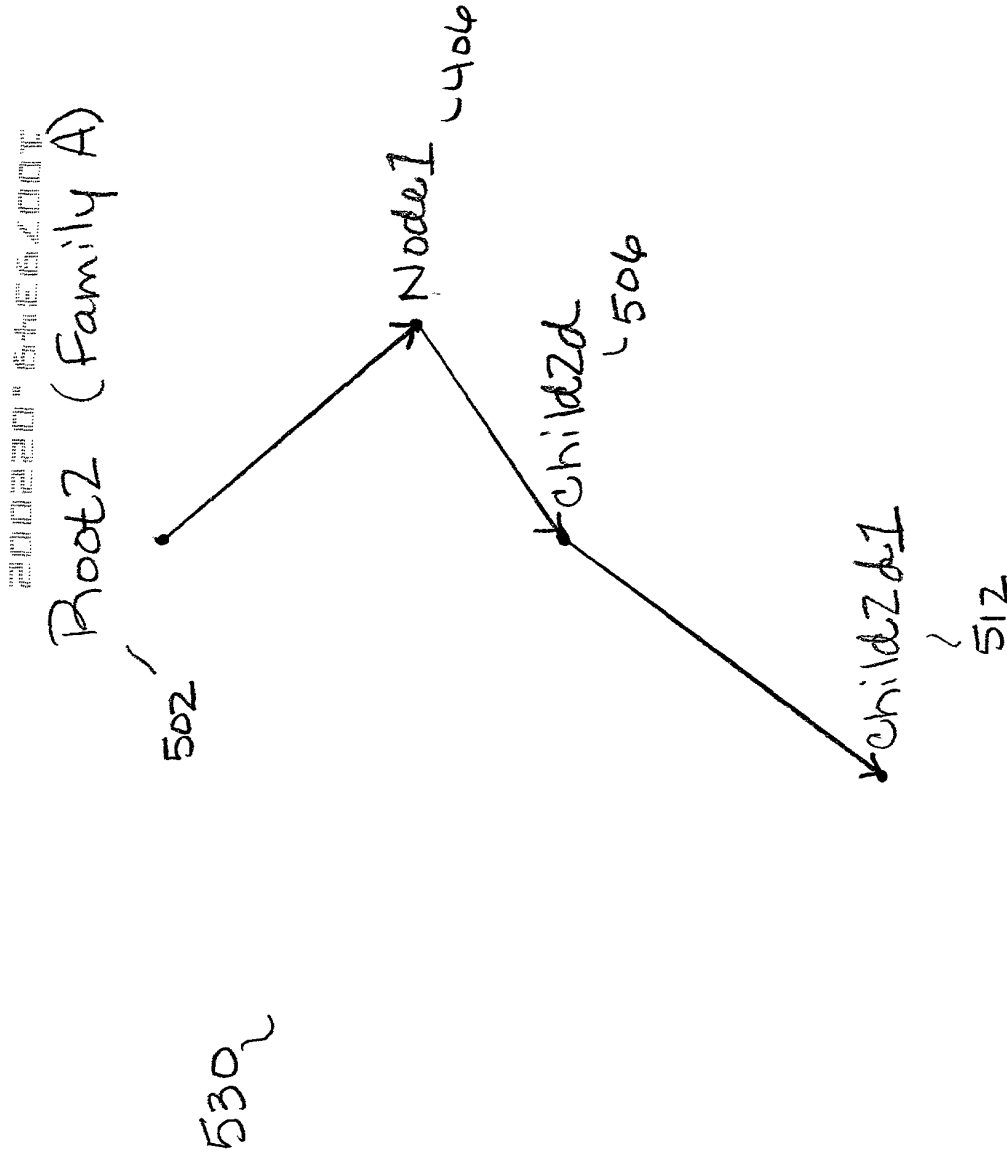


Fig. 5B

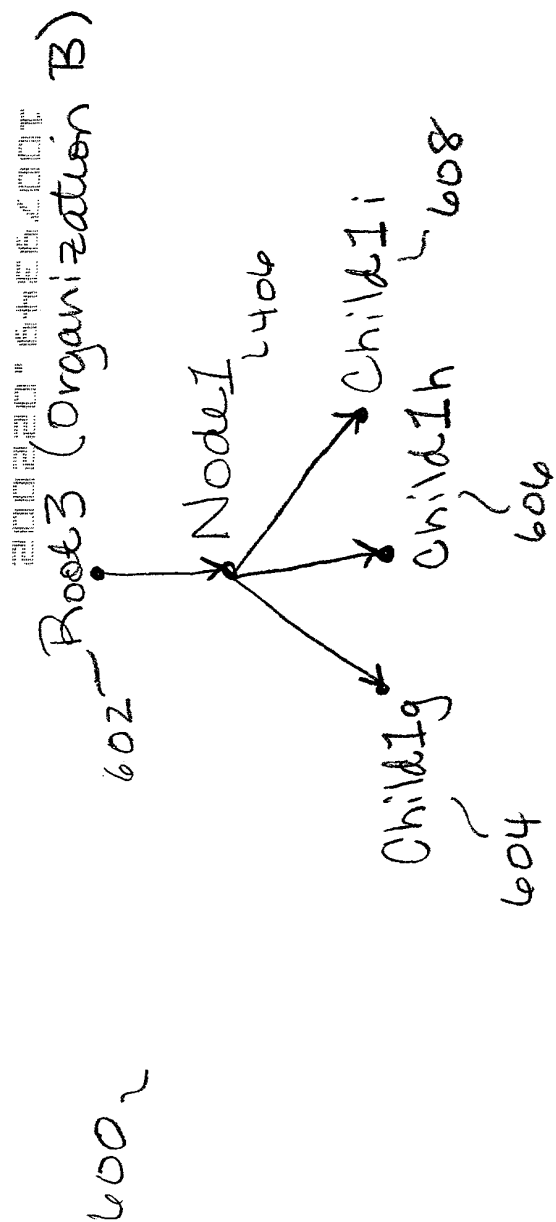


Fig. 6

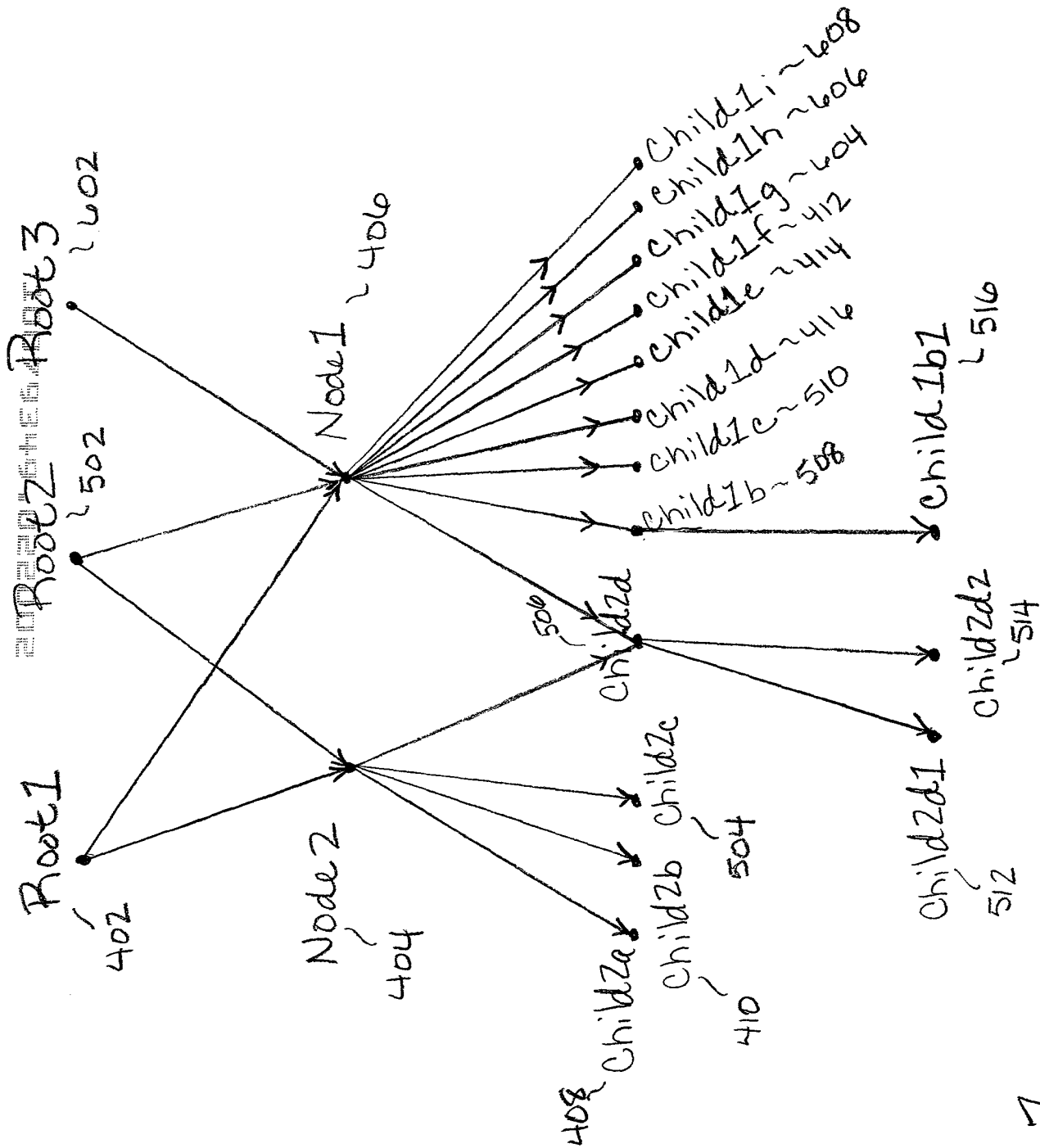


Fig. 7

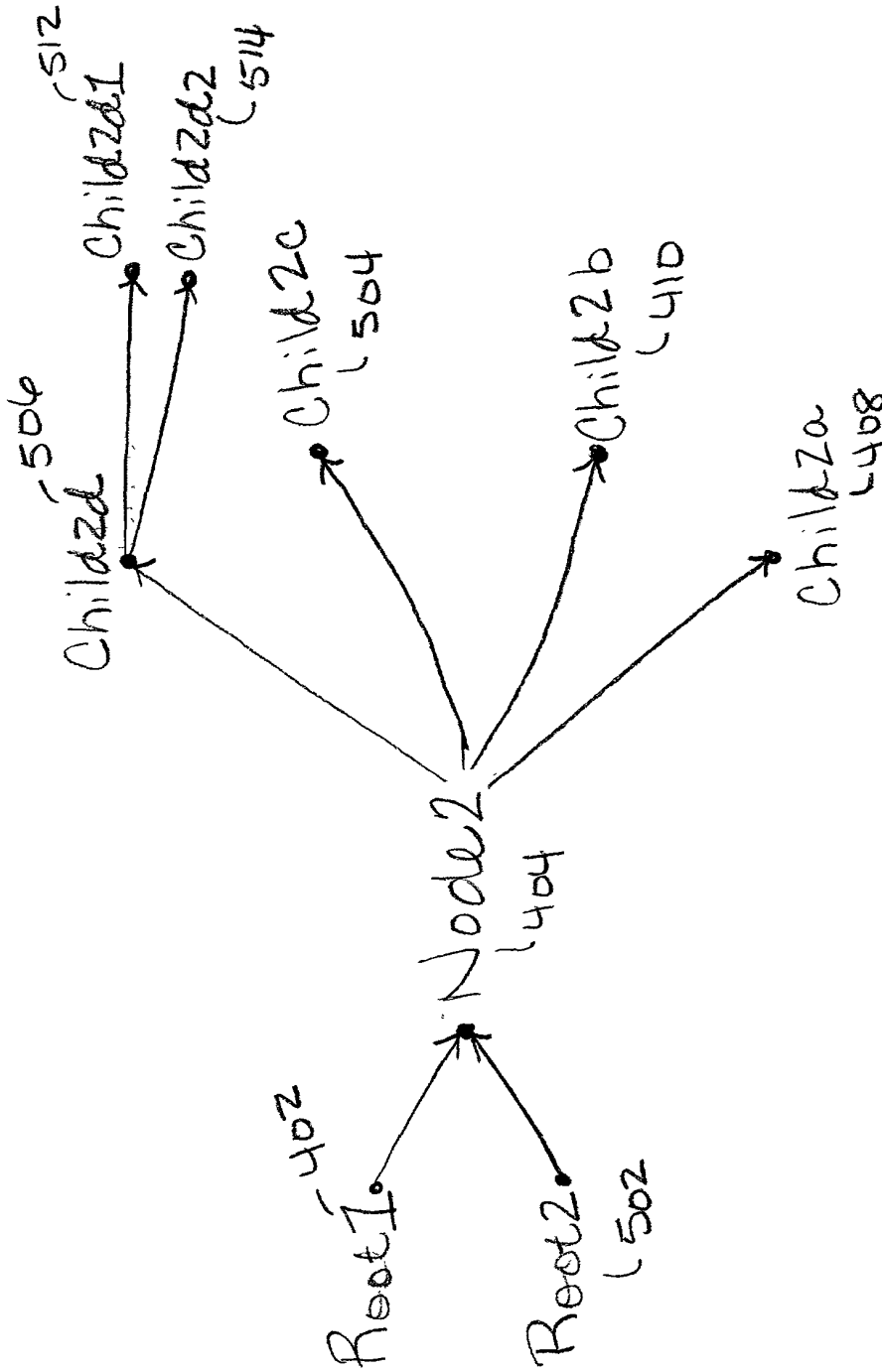


Fig.8 (prior art)

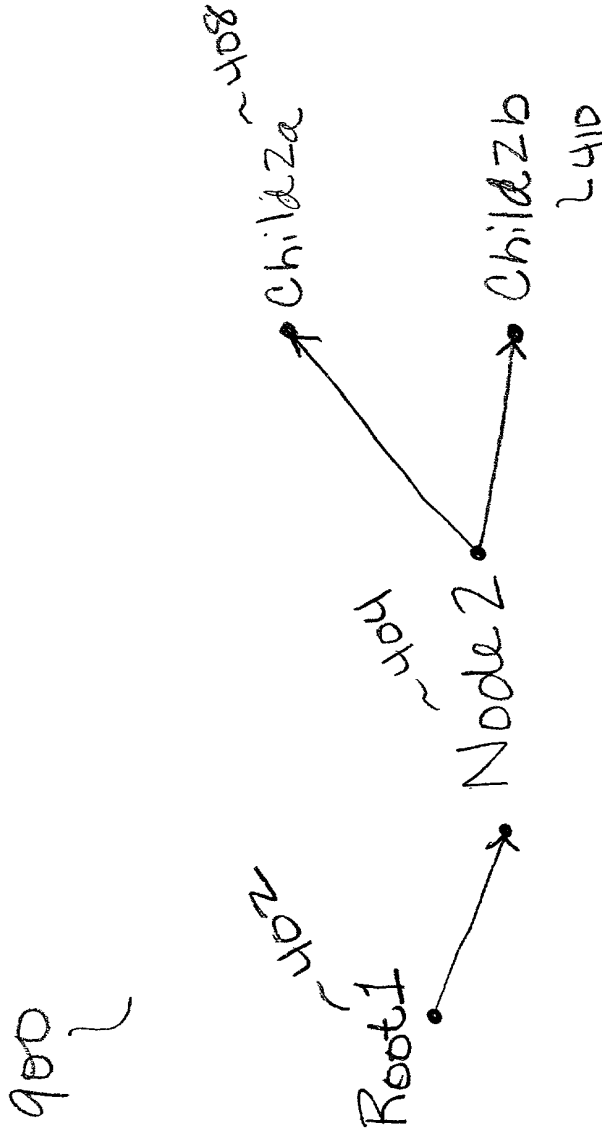


Fig. 9

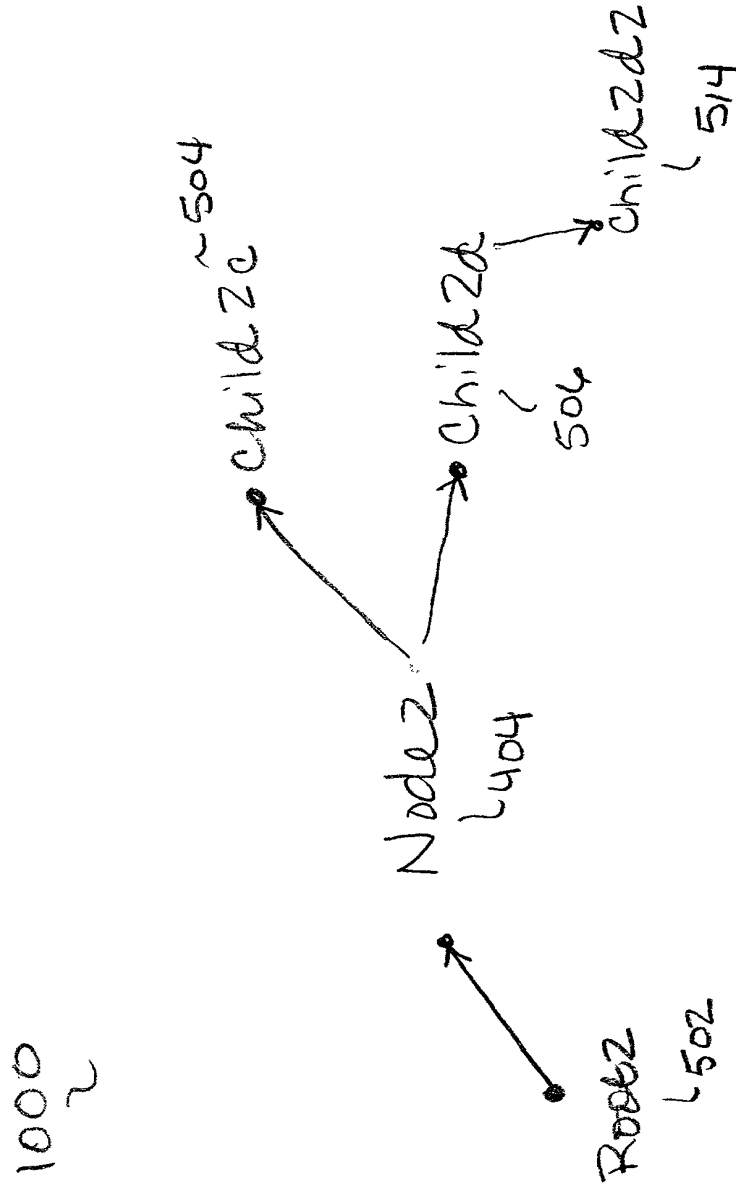


Fig. 10

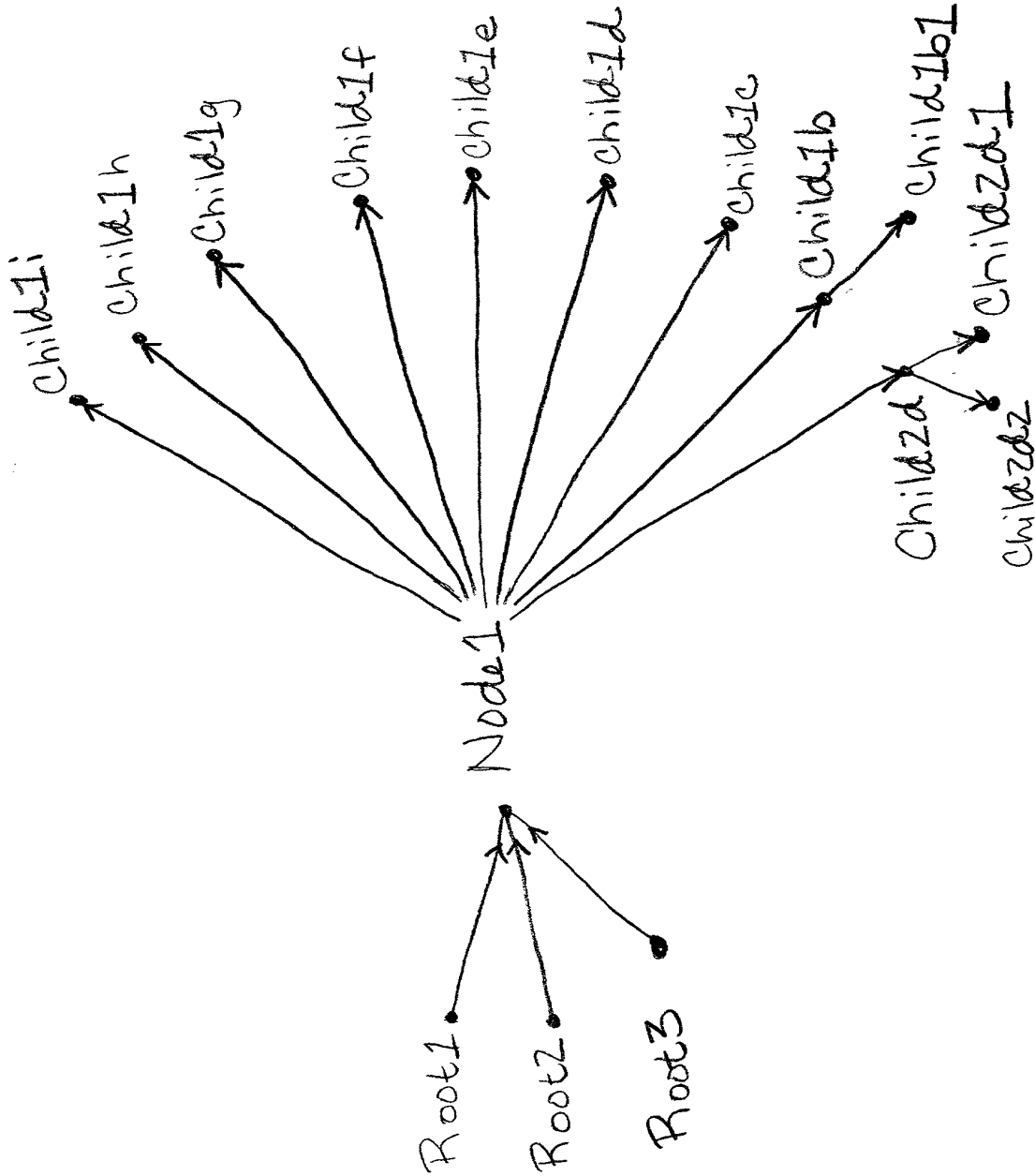


Fig. 11. (prior art)

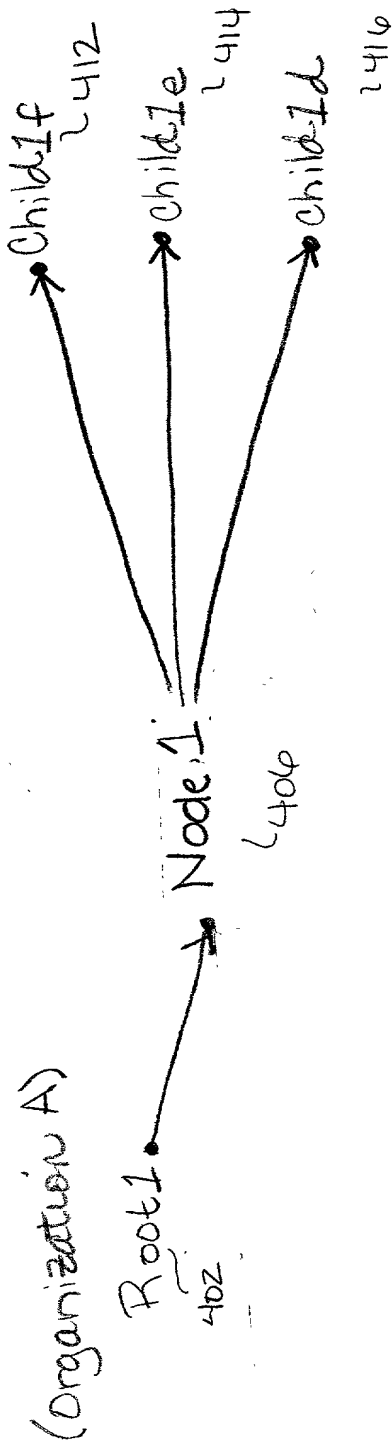


Fig. 12

200220" 64E6200T

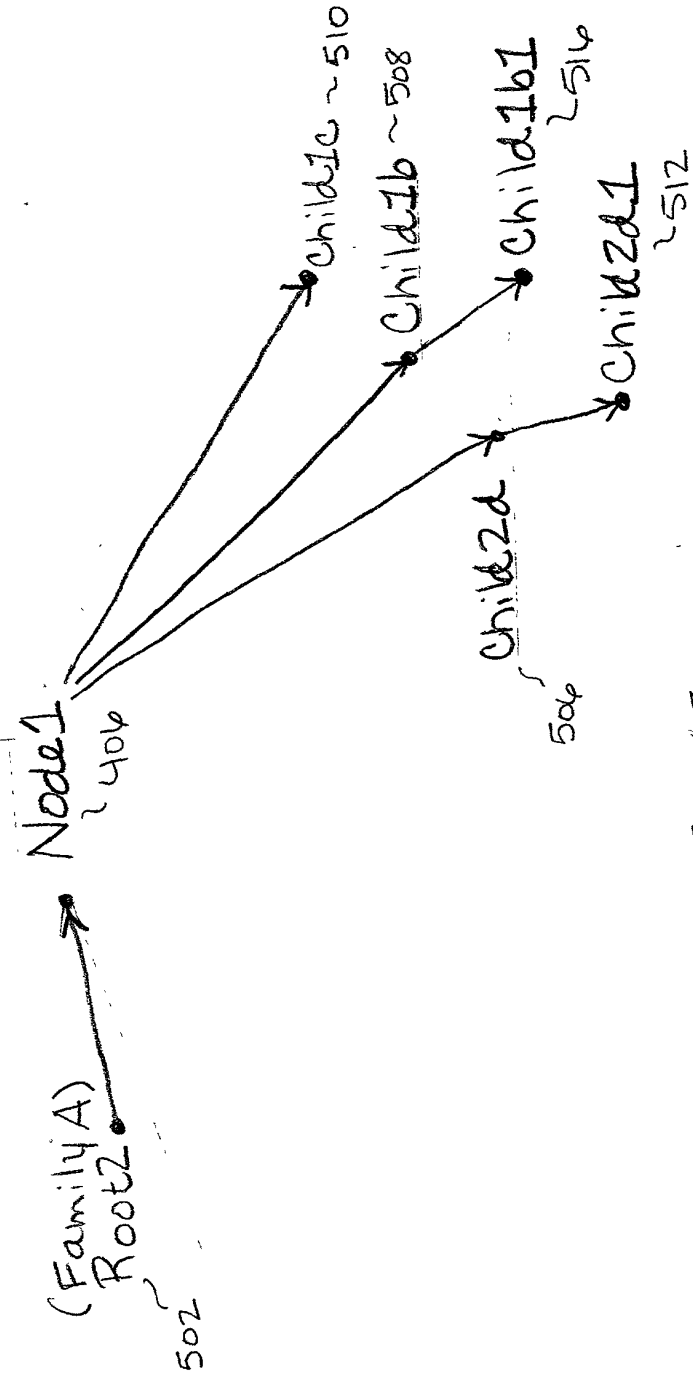


Fig. 13

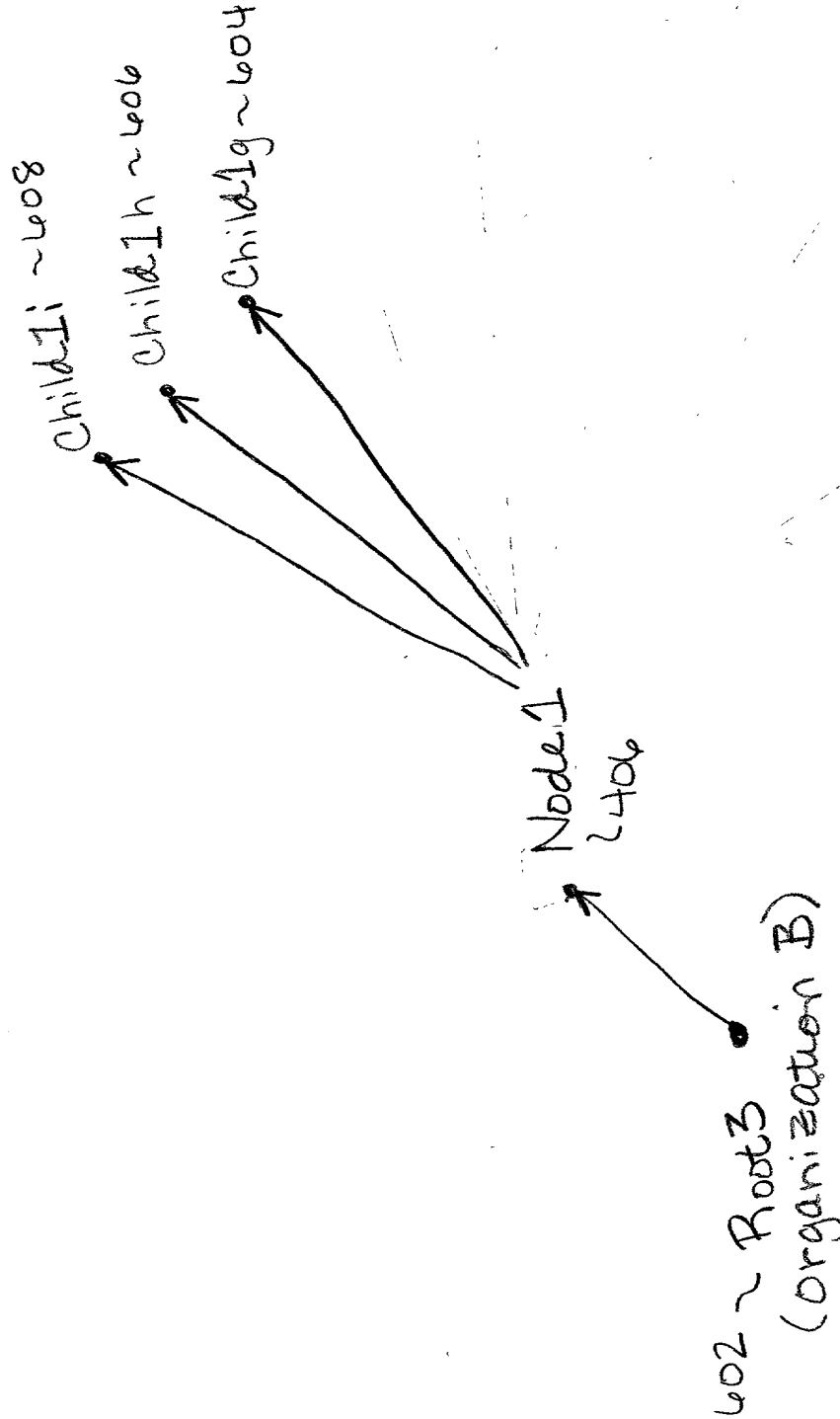


Fig. 14

200220" 54E5400T

51

Grouping "Organization Structure"

Details

Content Browsing

In Focus: Root2 ~ 502

Open

Add Children...

Move...

Find...

Parents of "Root2"

Name	Hierarchy	Start Date	End Date
(Top of Grouping)			

Showing line 1 to 1 of 1

Bring to Focus

Change End Date...

Children of "Root2" >> "Top of Grouping"

Name	Hierarchy	Start Date	End Date
Node1 ~ 404	Family A ~ 500	01/01/2000	Infinite
Node2 ~ 404	Family A ~ 500	01/01/1999	12/31/2003

Showing line 1 to 2 of 2

Bring to Focus

Change End Date...

Next view of hierarchy navigation control set, if double-clicked on Root2 or single-clicked and select Bring to Focus button for Root2.

Fig. 16

Next view of hierarchy
navigation control set, if
double-clicked on Focus1
or single-clicked
and select Bring to Focus
button for Focus1.

Grouping "Organization Structure"

Content Browsing

In Focus: Focus1

Node I ~ 406

1602

Open

Add Children...

Move...

End...

Name	Hierarchy	Start Date	End Date
Root1 ~ 402	Organization A ~ 400	01/01/2000	Infinite
Root2 ~ 502	Family A ~ 500	01/01/1999	12/31/2003
	1604		

Bring to Focus

Change End Date...

Children of "Root 2" >> "Focus1"

500

500

400

1604

Name	Hierarchy	Start Date	End Date
Child2d ~ 504	Family A, Organization A	01/01/2000	Infinite
Child1b ~ 508	Family A ~ 500	01/01/1999	12/31/2003
Child1c ~ 510	Family A ~ 500	08/01/1999	Infinite

Bring to Focus

Change End Date...

21502

showing line 1 to 3 of 3

showing line 1 to 3 of 3

Fig. 17

200220" 64E6/00T

Attorney Docket No.:
First Inventor:
Title:

M-12213 US
Sherrill J. Packebush
System and Method For An Interface To Provide Visualization And
Navigation Of A Directed Graph

Grouping "Organization Structure"

Find: 1902

Find

Find

Find

Find

Details

Content Browsing

In Focus: (Top of Grouping)

Find...

Move

Add Children...

Open

Children of "Top of Grouping"

Name	Hierarchy	Start Date	End Date
Root1	Organization A	01/01/2000	Infinite
Root2	Family A	01/01/1999	12/31/2003
Root3	Organization B	08/01/1999	Infinite

Bring to Focus

Change End Date

Showing lines 1 to 3 of 3

L1502

Fig. 19

200220" 64E6200T

2008

2002

2004

2010

2012

2014

201502

Grouping "Organization Structure"

Find in Grouping "Organization Structure"

Name contains Simpson

Apply Reset

Name 1 ID

Abe Simpson	48181112
Bart Simpson	11036599
Homer Simpson	88849290
Lisa Simpson	46380590
Maggie Simpson	33927804
Marge Simpson	10384539

Bring to Focus Cancel

Bring to Focus Change End Date...

showing line 1 to 3 of 3

showing line 1 to 6 of 6

Fig. 20

~~Next view of hierarchy navigation control set, if double-clicked on Focus1 or single-clicked and select Bring to Focus button for Focus1.~~

Fig. 21

☒

Grouping "Organization Structure"

☐ ☐ ☐ ☐ Find 1902

Details

Content Browsing

In Focus: **Focus**

Open

Add Children...

Move...

Find...

Node 1 ~ 400

1602

Name	Hierarchy	Start Date	End Date
Root1 ~ 402	Organization A ~ 400	01/01/2000	infinite
Root2 ~ 502	Family A ~ 500	01/01/1999	12/31/2003
	1604		

Bring to Focus

Change End Date...

2110

Children of "Root 2" >> "Focus"

500

Name	Hierarchy	Start Date	End Date
Child2d ~ 506	Family A, Organization A	01/01/2000	infinite
Child1b ~ 508	Family A ~ 500	01/01/1999	12/31/2003
Child1c ~ 510	Family A ~ 500	08/01/1999	infinite
	1606		

Bring to Focus

Change End Date...

41502

showing line 1 to 3 of 3

~~View of hierarchy navigation control set, if selected Find button, so that the user can go directly to an object without navigating down the hierarchy.~~

Fig. 22

2002220 64E6200T

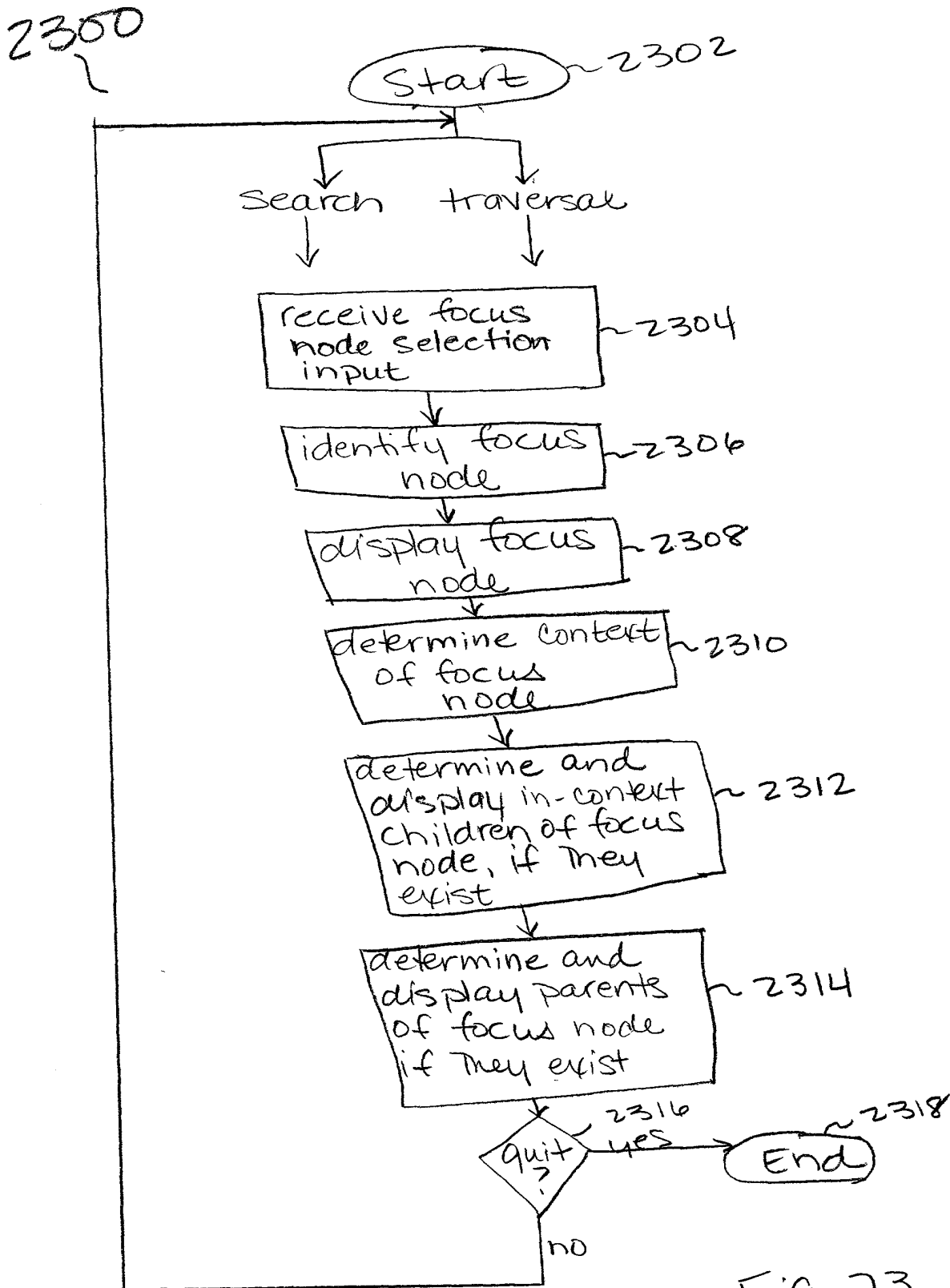


Fig. 23

Grouping "Organization Structure"

Details

Content Browsing

Find

Find

Find

Find

Find

1602

Node 1 ~ 406

In Focus: Focus

Open

Add Children...

Move...

Find...

Name	Hierarchy	Start Date	End Date
Root1 ~ 402	Organization A ~ 400	01/01/2000	infinite
Root2 ~ 502	Family A ~ 500	01/01/1999	12/31/2003

Bring to Focus

Change End Date...

Children of "Root 2" > > "Focus"

Name	Hierarchy	Start Date	End Date
Child2a ~ 506	Family A, Organization A	01/01/2000	infinite
Child1b ~ 508	Family A ~ 500	01/01/1999	12/31/2003
Child1c ~ 510	Family A ~ 500	08/01/1999	infinite

Bring to Focus

Change End Date...

1502

Next view of hierarchy navigation control set, if double-clicked on Focus1 or single-clicked and select Bring to Focus button for Focus1.

Fig. 24

Fig. 25

Grouping "Organization Structure"

Details

Content Browsing

In Focus: Root1 ~402

Open

Add Children...

Move...

Find...

Name	Hierarchy	Start Date	End Date
(Top of Grouping)			
	1404		

Bring to Focus

Change End Date...

showing line 1 to 3 of 3

Children of "Root 1"

Name	Hierarchy	Start Date	End Date
Focus1 Node1 ~406	Organization A ~400	01/08/2002	infinite
Focus2 Node2 ~404	Organization A ~400	01/10/2001	infinite
	1406		

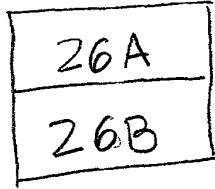
Bring to Focus

Change End Date...

showing line 1 to 3 of 3

1502

Fig. 26



2300 →

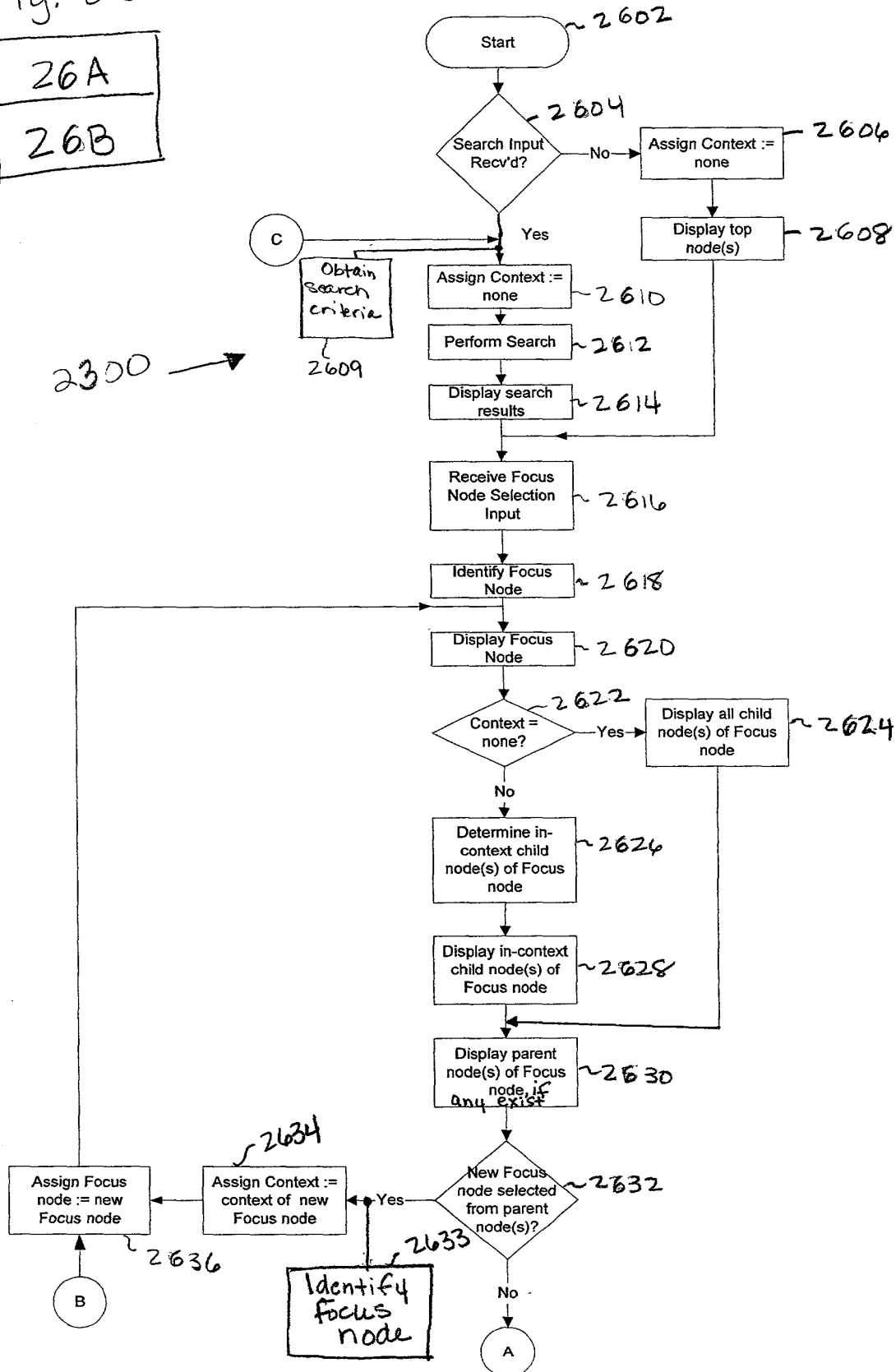


Fig. 26A

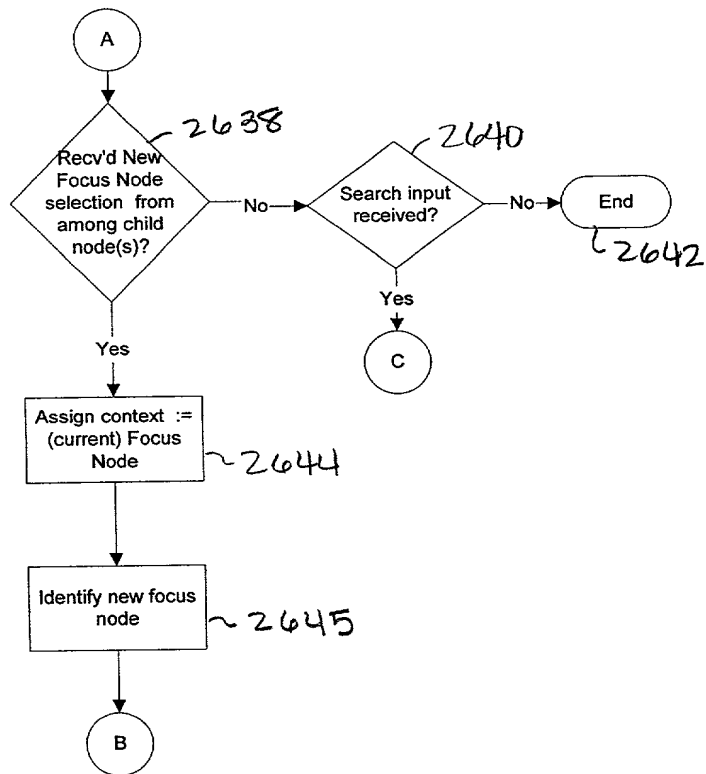


Fig. 26B

Search for Hierarchy

[illegible]

200220" 64E6/001

View Hierarchy - linked items

TRIOLOGY DMS Home Parties Hierarchies Contracts Agreements Payments Tools Maint Logout

View hierarchy as of: 01/16/2001 Apply

>> View Sample Organizational Hierarchy

Display Options : view active parties only, view hierarchy as people

1602

change log

Michael Bean In Sample Organizational Hierarchy

00004	Michael Bean	COO	01/01/1995 - 01/01/2002	View Party Record
-------	--------------	-----	-------------------------	-------------------

change log

Managers of Michael Bean

ID	Name	Title	Dept	Start Date	End Date	Hierarchy
00001	Jack Stalk	CEO		01/01/1995		Sample Organizational Hierarchy
11234	Jeremy Stalk	CEO		01/01/2001	12/31/2002	Intrepid Insurance

previous 5 | next 5

1604

change log

Managed by Michael Bean in Sample Organizational Hierarchy

ID	Name	Title	Dept	Start Date	End Date	Hierarchy
00012	Jane Peas	Manager	Sales	01/01/1992		
00013	Jennifer Jane Stalk	Manager	Marketing	01/01/1993	01/01/2002	
00014	Jane Michael Bean	VP	Sales	01/01/1994	01/01/2002	East County Insurance
00015	Oz Heinz	VP	Marketing	01/01/1995		
00016	Annette Peas	Manager	R&D	01/01/1992		
00017	Jane Stalk	Manager	Benefits	01/01/1993	01/01/2002	
00018	Sweetboa Bean	Regional Manager	Sales	01/01/1994	01/01/2002	Whole County Insurance
00019	Garland Heinz	VP	Finance	01/01/1995		

previous 25 | next 25

1606

2802

2804

Fig. 28

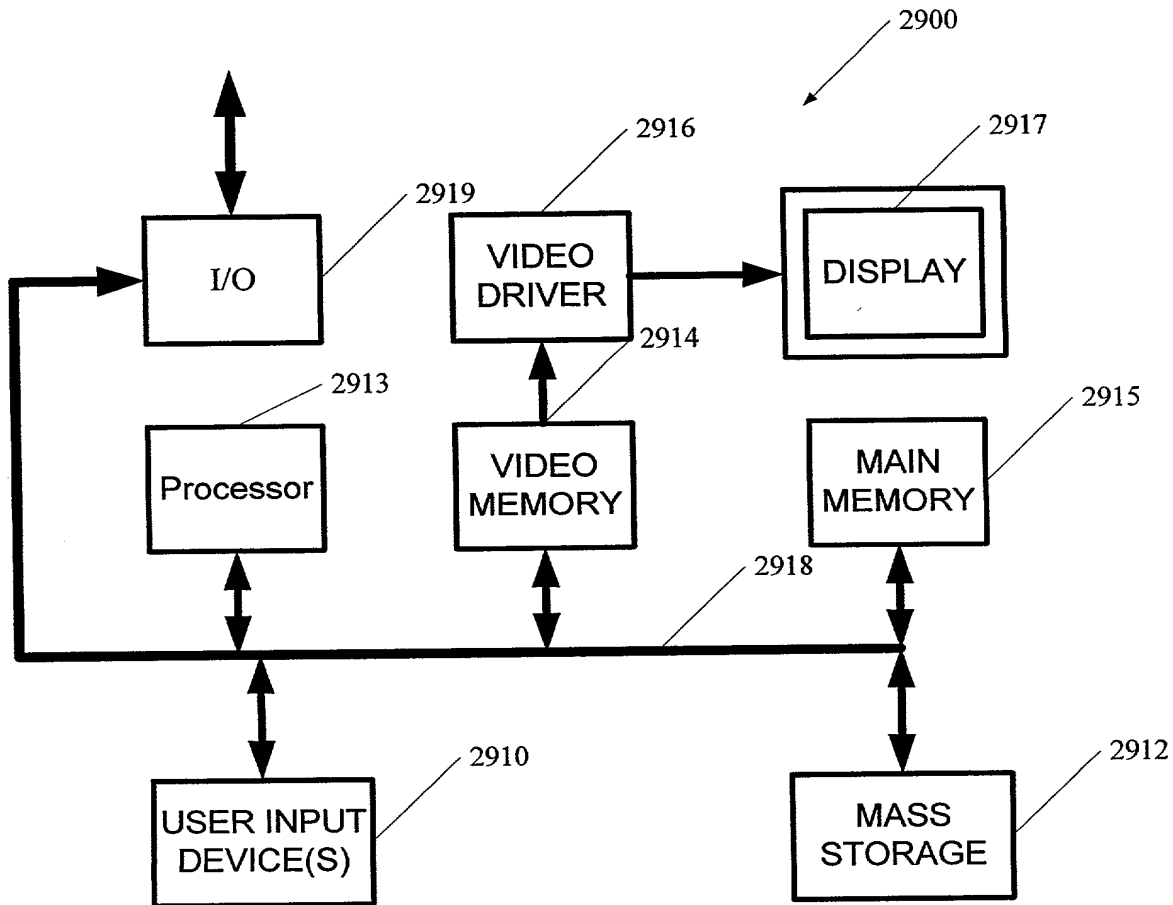
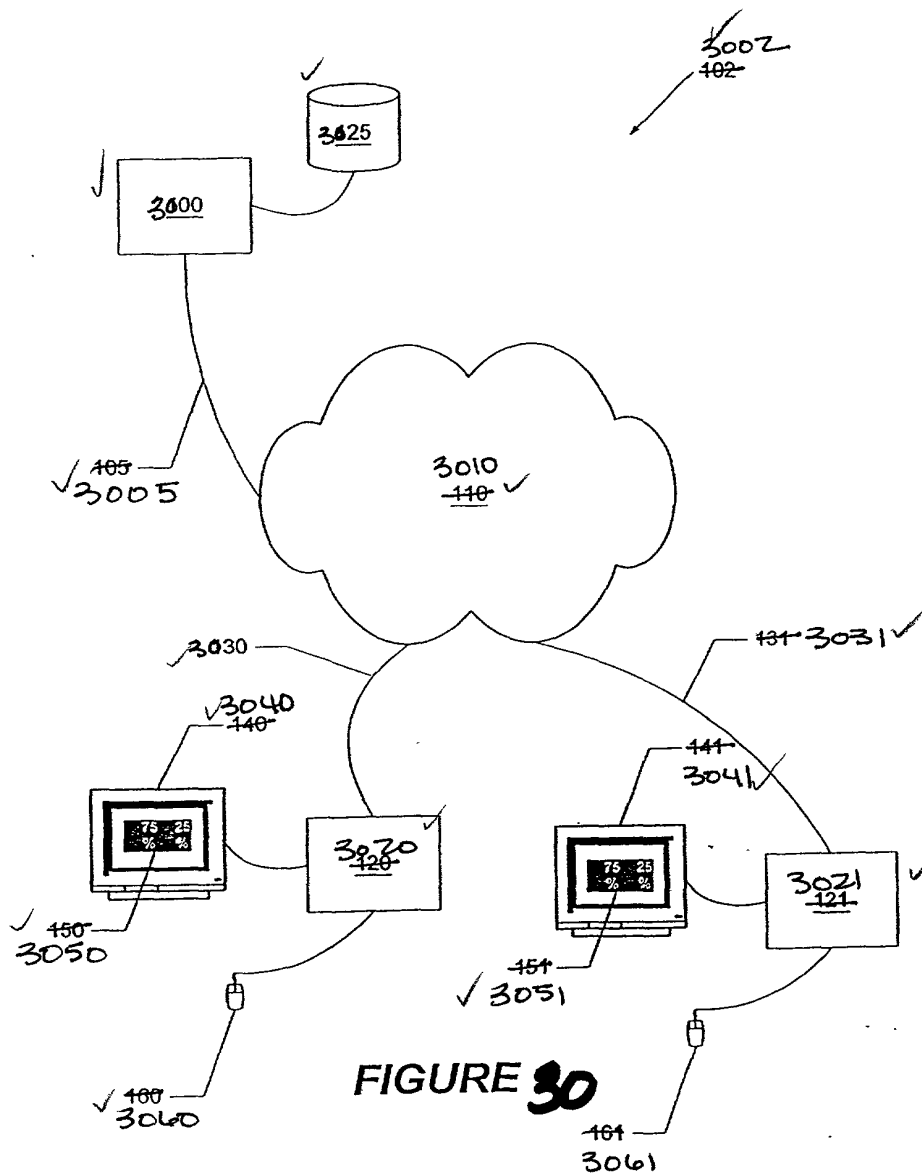


Figure 29



200220-545/001

Search for Hierarchy - Locate Party/Position

2002

LOGO DNS Home Parties Hierarchies Contracts Agreements Payments Tools Maint

Search for Hierarchy >>

Search Results type: organization, name contains: "sample"

Hierarchy

Type: organization

ID: sample

Name: sample

Must be agreement hierarchy? ☐ Yes ☐ No

Contains Positions:

Position Type: < any >

AggRel ID:

Linked positions: ☐ Yes ☐ No

Contains Parties

Party Name: Bean

Party ID:

Start Date After:

End Date Before:

sortresults by: Party

ID	Name	Position	Party	Type	Description
01	Sample Organizational Hierarchy 1	VP	Jane Michael Bean	org	
01	Sample Organizational Hierarchy 1	COO	Michael Bean	org	testing testing
01	Sample Organizational Hierarchy 1	Regional Manager	Morris Bean	org	
02	Intrepid Insurance	Manager	Norman Bean	org	testing again
05	Sample Organizational Hierarchy 5	Clerk	Ople Bean	org	
05	Sample Organizational Hierarchy 5	Clerk	Paul Bean	org	
07	Sample Organizational Hierarchy 7	Clerk	Ross Bean	org	
07	Sample Organizational Hierarchy 7	Clerk	Sarah Bean	org	
07	Sample Organizational Hierarchy 7	Clerk	Tara Bean	org	
07	Sample Organizational Hierarchy 7	Clerk	Well Bean	org	

Displaying results 1-10 of 27 previous 10 | next 10

Sample Organizational Hierarchy

Name: Sample Organizational Hierarchy

Description: Testing testing

Number of parties: 100

Contains linked hierarchies: 2

Hierarchies linking to this one: 3

Fig. 31

View Hierarchy - display options

>>> View Sample Organizational Hierarchy

Display Options [] View hierarchy as of: 01/16/2001

View hierarchy as: ☐ Titles ☒ People
 3202a 3202b

Michael Bean in Sample Organizational Hierarchy

ID	Name	Title	Dept	Start Date	End Date	Hierarchy
00004	Michael Bean	COO		01/01/1995 - 01/01/2002		

previous 5 | next 5

Managers of Michael Bean

ID	Name	Title	Dept	Start Date	End Date	Hierarchy
00001	Jack Spral	CEO		01/01/1995		Sample Organizational Hierarchy
11234	Jeremy Stalk	CEO		01/01/2001	12/31/2002	Intrepid Insurance

1404

Managed by Michael Bean in Sample Organizational Hierarchy

ID	Name	Title	Dept	Start Date	End Date	Hierarchy
00012	Jane Peas	Manager	Sales	01/01/1992		
00013	Jennifer Jane Stalk	Manager	Marketing	01/01/1993	01/01/2002	
00014	Jane Michael Bean	VP	Sales	01/01/1994	01/01/2002	East County Insurance
00015	Oz Heinz	VP	Marketing	01/01/1995		
00016	Annette Peas	Manager	R&D	01/01/1992		
00017	June Stalk	Manager	Benefits	01/01/1993	01/01/2002	
00018	Sweetpea Bean	Regional Manager	Sales	01/01/1994	01/01/2002	Whole County Insurance
00019	Garland Heinz	VP	Finance	01/01/1995		

1404

View Hierarchy - view by Title

TRILGY DMS Home Parties Hierarchies Contracts Agreements Payments Tools Maint Logout

>> View Sample Organizational Hierarchy

Display Options : view active nodes only, view hierarchy as titles

View hierarchy as of: 01/16/2001 Apply

change log

COO position in Sample Organizational Hierarchy

ID	Name	Start Date	End Date	Hierarchy
00004	Michael Bean	01/01/1995	01/01/2002	Sample Organizational Hierarchy

change log

Managers of COO position

Title	ID	Name	Start Date	End Date	Hierarchy
CEO	00001	Jack Stalk	01/01/1995		Sample Organizational Hierarchy
CEO	11234	Jeremy Stalk	01/01/2001	12/31/2002	Intrepid Insurance

previous 5 | next 5

Displaying 1-2 of 2

Focus on Selected

change log

Managed by COO position in Sample Organizational Hierarchy

Title	Dept	ID	Name	Start Date	End Date	Hierarchy
Manager	Sales	00012	Jane Peas	01/01/1992		
Manager	Marketing	00013	Jennifer Jane Stalk	01/01/1993	01/01/2002	
VP	Sales	00014	Jane Michael Bean	01/01/1994	01/01/2002	East County Insurance
VP	Marketing	00015	Oz Heinz	01/01/1995		
Manager	R&D	00016	Annette Peas	01/01/1992		
Manager	Benefits	00017	Jane Stalk	01/01/1993	01/01/2002	
Regional Manager	Sales	00018	Sweetpea Bean	01/01/1994	01/01/2002	Whole County Insurance
VP	Finance	00019	Garland Heinz	01/01/1995		

previous 25 | next 25

Displaying 1-25 of 40

Fig. 33

200220 " 6466/007

Add Position/Party - step 1

TRILLOSYS DMS Home Parties Hierarchies Contacts Agreements Payments Tools Maint Logout

Add Position/Person

1. Add To

Hierarchy: Sample Organizational Hierarchy
Under: Michael Bean

Start Date:
End Date:

2. Position

Position Type:
Position Name:
Position Description:

3. Person

Use Placeholder: ☐ Yes

Party ID:
First Name: Daniel
Last Name: Bean

Fig. 34a

Add Position/Party - step 2

TRIOLOGY/DMS

Home Parties Hierarchies Contacts Agreements Payments Tools Maint Logout

Add Position/Person

1. Add To

Hierarchy Under

Sample Organizational Hierarchy

Michael Bean

Start Date

End Date

2. Position

Position Type

Position Name

Position Description

3. Person

Use Placeholder ☐ Yes

Party ID

First Name

Last Name

Please select the appropriate person from the following:

ID	Last Name	First Name	Organization	City
12314	Bean	Daniel	Trilogy	Austin
43142	Bean	Daniel	TrilBos	Boston
00021	Bean	Daniel	TrlDen	Denver

Fig. 34b

Fig. 35

200220" 64E6200T

Edit Position/Party

TECHSY DMS Home Parties Hierarchies Contracts Agreements Payments Tools Maint Logout

Edit Position/Person

Hierarchy	Sample Organizational Hierarchy		
Under	Michael Bean		
Edit effective as of	<input type="text" value="01/16/2001"/>		

1. Position

Type	<input type="text" value="VP"/>
Name	<input type="text" value="Vice President"/>
Department	<input type="text" value="Sales"/>
Description	<input type="text"/>

3. Person

Use Placeholder	<input type="checkbox"/> Yes
Party ID	<input type="text"/>
First Name	<input type="text" value="Jane Michael"/>
Last Name	<input type="text" value="Bean"/>

Fig. 35

Retire Party

Attorney Docket No.: M-12213 US
First Inventor: Sherrill J. Packebush
Title: System and Method For An Interface To Provide Visualization And Navigation Of A Directed Graph

TRLOGY DMS Home Parties Hierarchies Contacts Agreements Payments Tools Maint Logout

Retire Position

Hierarchy Under Retire as of

Sample Organizational Hierarchy
Jack Sprat
01/16/2001

1. Retire Person and Position

Name Position Description

Michael Bean
VP, Sales

2. Subordinates affected (one level down only)

ID	Name	Title	Dept
00012	Jane Peas	Manager	Sales
00013	Jennifer Jane Stalk	Manager	Marketing
00015	Oz Heinz	VP	Marketing
00016	Annette Peas	Manager	R&D
00017	June Stalk	Manager	Benefits
00019	Garland Heinz	VP	Finance

Fig. 36

Move Subtree

TRILGY DWS Home Parties Hierarchies Contracts Agreements Payments Tools Maint Logout

show Move Hierarchy

Filter: Party Status ☐ is ☐ Active ☐ View hierarchies as: ☐ Titles ☐ People

Hierarchies as of: 01/16/2001

Move Subtree

Type of Move ☐ Move ☐ Copy ☒ Insert as link

Start Date End Date

▼ 1. Target Hierarchy

Type Name ID

▼ 2. Target Location

Position Party ID First Name Last Name

► 3. Target Position

Move this Subtree

ID	Name	Title	Dept	Hierarchy
00004	Michael Bean	Manager	Sales	COO
Subordinates included in move				
00012	Jane Peas	Manager	Sales	
00013	Jennifer Jane Stalk	Manager	Marketing	
00014	Jane Michael Bean	VP	Sales	East County Insurance
00015	Oz Heinz	VP	Marketing	
00016	Annette Peas	Manager	R&D	
00017	June Stalk	Manager	Benefits	
00018	Sweetpea Bean	Regional Manager	Sales	Whole County Insurance
00019	Garland Heinz	VP	Finance	

(Move includes subordinates of subordinates.)

Fig. 37